In the Claims

All claims have been reproduced below for the convenience of the Examiner.

1. (Currently Amended): A method of generating compiler products in a compressed form, said method comprising:

compressing a portion of compiler information to obtain compressed related compiler information wherein the portion of the compiler information being compressed by said compressing comprises <u>encoded</u> program symbol names; and

producing a compressed compiler product based on at least the compressed compiler related information.

2. (Cancelled)

3. (Currently Amended): A method as recited in claim 1, wherein said compressing operates to reduce the length of a plurality of the <u>encoded</u> program symbol names using a differential encoding scheme.

4. (Currently Amended): A method as recited in claim 1, wherein said compressing comprises:

identifying a <u>encoded</u> program symbol name within the compiler information that is encoded in an extended format encoding;

determining a differential encoding for the <u>encoded</u> program symbol name, the differential encoding having a reduced-size format as compared to the extended format; and

replacing the extended format encoding for the <u>encoded</u> program symbol name in the compiler information with the differential encoding.

5. (Currently Amended): A method as recited in claim 4, wherein said compressing further comprises:

    determining a <u>encoded</u> program symbol name identifier; and

    attaching the <u>encoded</u> program symbol name identifier to the differential encoding.

6. (Currently Amended): A method as recited in claim 5, wherein the <u>encoded</u> program symbol name identifier is a container reference to indicate a container name associated with at least one of the <u>encoded</u> program symbol names.

7. (Original): A method as recited in claim 1, wherein the source program is written in a programming language selected from a group consisting of Ada, C++, Fortran, Pascal, and Java.

8. (Previously Amended): A method as recited in claim 1, wherein the compressed compiler related product is an object code file.

9. (Previously Amended): A method as recited in claim 1, wherein the compressed compiler related product contains debugger information.

10. (Currently Amended): A method of generating <u>encoded</u> program symbol names in an uncompressed form, the <u>encoded</u> program symbol names being associated with compiler information, said method comprising:

    identifying a compressed <u>encoded</u> program symbol name being associated with compiler information;

    obtaining information relating to the compressed <u>encoded</u> program symbol name; and

    decompressing the compressed <u>encoded</u> program symbol name based on the information relating to the compressed <u>encoded</u> program symbol name to obtain a <u>encoded</u> program symbol name in an uncompressed form.

11. (Currently Amended): A method as recited in claim 10, wherein said obtaining of information further comprises obtaining information referenced by a program symbol reference that is included in the compressed <u>encoded</u> program symbol name, the program symbol reference providing a reference to a base program symbol that is associated with the <u>encoded</u> program symbol name that is represented by the compressed <u>encoded</u> program symbol name.

12. (Currently Amended): A method as recited in claim 11, wherein the base program symbol is a container of the program symbol that is represented by the compressed <u>encoded</u> program symbol name.

13. (Currently Amended): A compilation system suitable for compilation and utilization of source programs, said compilation system comprising:

an enhanced compiler suitable for generation of enhanced compiler products, wherein the enhanced compiler compiles a source program having at least one compressed <u>encoded</u> program symbol name to produce the enhanced compiler products with a reduced size in comparison with conventional compiler products produced by conventional compilers; and

at least one enhanced non-compiler component that understands and utilizes the enhanced compiler products.

14. (Original): A compiler system as recited in claim 13, wherein reduction of size of the enhanced compiler product is up to 40 percent of sizes of conventional compiler products produced by conventional compilers.

15. (Previously Amended): A compiler system as recited in claim 13, wherein the enhanced compiler product is a compiler related product selected from a group consisting of an object file, an executable file, and debugging information.

16. (Currently Amended): A computer readable media including computer program code for generating compiler products in a compressed form, said computer readable media comprising:

computer program code for compressing a portion of compiler information to obtain compressed related compiler information wherein the portion of the compiler information being compressed by said compressing comprises <u>encoded</u> program symbol names; and

computer program code for producing a compressed compiler product based on at least the compressed compiler related information.

17.   Cancelled

18. (Currently Amended): A computer readable media as recited in claim 16, wherein said computer program code for compressing operates to reduce the length of a plurality of the <u>encoded</u> program symbol names using a differential encoding scheme.

19. (Currently Amended): A computer readable media as recited in claim 18, wherein said compressing comprises:

computer program code for identifying a <u>encoded</u> program symbol name within the compiler information that is encoded in an extended format encoding;

computer program code for determining a differential encoding for the <u>encoded</u> program symbol name, the differential encoding having a reduced-size format as compared to the extended format; and

computer program code for replacing the extended format encoding for the <u>encoded</u> program symbol name in the compiler information with the differential encoding.

20. (Previously Amended): A computer readable media as recited in claim 16, wherein the compressed compiler related product is a compiler related product selected from a group consisting of an object file, executable file, and debugging information.

21. (Currently Amended):   A computer readable media including computer program code generating <u>encoded</u> program symbol names in an uncompressed form, the <u>encoded</u> program symbol names being associated with compiler information, said computer readable media comprising:

computer program code for identifying a compressed <u>encoded</u> program symbol name being associated with compiler information;

computer program code for obtaining information relating to the compressed <u>encoded</u> program symbol name; and

computer program code for decompressing the compressed <u>encoded</u> program symbol name based on the information relating to the compressed <u>encoded</u> program symbol name to obtain a <u>encoded</u> program symbol name in an uncompressed form.